

Certificate of Analysis

● All Specifications Met

PRODUCT NAME	BPC-157 (Body Protection Compound-157)	PRODUCT CODE	SYN-BPC-157
FORM	Lyophilized Powder, 5mg/vial	LOT / BATCH NO.	SYN-BPC-2026-0341
MANUFACTURE DATE	January 18, 2026	ANALYSIS DATE	January 22, 2026
EXPIRATION DATE	January 18, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>, ICP-MS	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC)	Conforms to BPC-157 reference	Confirmed	PASS
Peptide Purity (HPLC)	>= 98.0%	99.2%	PASS
Molecular Weight (ESI-MS)	1419.53 +/- 0.5 Da	1419.51 Da	PASS
Amino Acid Sequence	Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val	Confirmed	PASS
Peptide Content	>= 80.0%	84.6%	PASS
Acetate Content (Counter Ion)	<= 15.0%	11.2%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.10	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	<= 1,000 CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	<= 100 CFU/g	< 10 CFU/g	PASS

E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.5 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized powder	White lyophilized powder	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	4.0 - 7.0	5.4	PASS
Moisture (Karl Fischer)	<= 8.0%	3.8%	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: January 22, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03187

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	TB-500 (Thymosin Beta-4 Fragment)	PRODUCT CODE	SYN-TB500
FORM	Lyophilized Powder, 5mg/vial	LOT / BATCH NO.	SYN-TB5-2026-0342
MANUFACTURE DATE	January 18, 2026	ANALYSIS DATE	January 23, 2026
EXPIRATION DATE	January 18, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>, ICP-MS	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC)	Conforms to TB-500 reference	Confirmed	PASS
Peptide Purity (HPLC)	$\geq 98.0\%$	98.7%	PASS
Molecular Weight (ESI-MS)	4963.50 +/- 1.0 Da	4963.44 Da	PASS
Peptide Content	$\geq 80.0\%$	82.3%	PASS
Acetate Content	$\leq 15.0\%$	12.8%	PASS
Related Substances	$\leq 2.0\%$	1.1%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.08	PASS
Cadmium (Cd)	≤ 0.5	< 0.03	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS
E. coli	Absent	Not Detected	PASS

Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.8 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White lyophilized powder or cake	White lyophilized cake	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	5.0 - 7.5	6.2	PASS
Moisture (Karl Fischer)	<= 8.0%	4.1%	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: January 23, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03188

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	CJC-1295 without DAC (Modified GRF 1-29)	PRODUCT CODE	SYN-CJC-NODAC
FORM	Lyophilized Powder, 2mg/vial	LOT / BATCH NO.	SYN-CJC-2026-0343
MANUFACTURE DATE	January 20, 2026	ANALYSIS DATE	January 24, 2026
EXPIRATION DATE	January 20, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to CJC-1295 no DAC reference	Confirmed	PASS
Peptide Purity (HPLC)	$\geq 98.0\%$	99.1%	PASS
Molecular Weight (ESI-MS)	3367.90 +/- 0.5 Da	3367.88 Da	PASS
Peptide Content	$\geq 80.0\%$	83.7%	PASS
Acetate Content	$\leq 15.0\%$	10.9%	PASS
Single Maximum Impurity	$\leq 1.0\%$	0.4%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.10	PASS
Cadmium (Cd)	≤ 0.5	< 0.04	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS

E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.6 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized powder	White lyophilized powder	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	5.0 - 7.0	5.8	PASS
Moisture (Karl Fischer)	<= 8.0%	3.5%	PASS

Dr. Rachel Nguyen, Ph.D.

Quality Control Analyst

Date: January 24, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03189

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Bacteriostatic Water for Injection (0.9% Benzyl Alcohol)	PRODUCT CODE	SYN-BACWATER
FORM	Sterile Solution, 10mL/vial	LOT / BATCH NO.	SYN-BAC-2026-0344
MANUFACTURE DATE	January 15, 2026	ANALYSIS DATE	January 19, 2026
EXPIRATION DATE	January 15, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <71>, <85>, <788>, <791>, GC	STORAGE CONDITIONS	15-30 C, protect from light

Identity & Composition

Parameter	Specification	Result	Status
Benzyl Alcohol Content (GC)	0.85% - 0.95% v/v	0.91% v/v	PASS
Water for Injection Identity	Conforms to USP requirements	Conforms	PASS
Appearance	Clear, colorless solution	Clear, colorless	PASS
Particulate Matter (USP <788>)	Conforms	Conforms	PASS

Sterility & Endotoxin

Parameter	Specification	Result	Status
Sterility (USP <71>)	No growth after 14 days	No growth detected	PASS
Bacterial Endotoxins (LAL)	<= 0.25 EU/mL	< 0.10 EU/mL	PASS
Bacteriostatic Efficacy	No growth at 28-day challenge	No growth detected	PASS

Physical & Chemical

Parameter	Specification	Result	Status
pH	4.5 - 7.0	5.6	PASS
Fill Volume	10.0 mL +/- 0.5 mL	10.1 mL	PASS
Container Closure Integrity	No leaks	No leaks detected	PASS
Color and Clarity	Clear, colorless, free of visible particulates	Conforms	PASS

Heavy Metals

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.1	< 0.02	PASS
Arsenic (As)	<= 0.1	< 0.02	PASS
Mercury (Hg)	<= 0.05	< 0.01	PASS

Dr. Mark Sullivan, Ph.D.

Quality Control Analyst

Date: January 19, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03190

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	GHK-Cu (Copper Peptide)	PRODUCT CODE	SYN-GHK-CU
FORM	Lyophilized Powder, 50mg/vial	LOT / BATCH NO.	SYN-GHK-2026-0345
MANUFACTURE DATE	January 22, 2026	ANALYSIS DATE	January 26, 2026
EXPIRATION DATE	January 22, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ICP-OES, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light and moisture

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC)	Conforms to GHK-Cu reference	Confirmed	PASS
Peptide Purity (HPLC)	>= 98.0%	99.4%	PASS
Molecular Weight (MS)	403.93 +/- 0.5 Da	403.91 Da	PASS
Copper Content (ICP-OES)	14.0% - 17.0% w/w	15.8% w/w	PASS
Peptide Content	>= 85.0%	87.2%	PASS
Amino Acid Composition	Gly-His-Lys:Cu(II)	Confirmed	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.08	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	<= 1,000 CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	<= 100 CFU/g	< 10 CFU/g	PASS
E. coli	Absent	Not Detected	PASS

Salmonella	Absent / 25g	Not Detected	PASS
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Physical Characteristics

Parameter	Specification	Result	Status
Appearance	Blue to blue-purple lyophilized powder	Blue-purple lyophilized powder	PASS
Solubility	Freely soluble in water	Conforms	PASS
pH (1% Solution)	5.0 - 7.0	5.9	PASS
Moisture (Karl Fischer)	<= 8.0%	3.2%	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: January 26, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03191

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Melanotan II (MT-2)	PRODUCT CODE	SYN-MT2
FORM	Lyophilized Powder, 10mg/vial	LOT / BATCH NO.	SYN-MT2-2026-0346
MANUFACTURE DATE	January 22, 2026	ANALYSIS DATE	January 26, 2026
EXPIRATION DATE	January 22, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to Melanotan II reference	Confirmed	PASS
Peptide Purity (HPLC)	$\geq 98.0\%$	98.9%	PASS
Molecular Weight (ESI-MS)	1024.18 +/- 0.5 Da	1024.16 Da	PASS
Peptide Content	$\geq 80.0\%$	83.4%	PASS
Acetate Content	$\leq 15.0\%$	11.7%	PASS
Related Substances	$\leq 2.0\%$	0.9%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.10	PASS
Cadmium (Cd)	≤ 0.5	< 0.04	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS

E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.7 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized powder	White lyophilized powder	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	4.0 - 7.0	5.1	PASS
Moisture (Karl Fischer)	<= 8.0%	4.3%	PASS

Dr. Rachel Nguyen, Ph.D.

Quality Control Analyst

Date: January 26, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03192

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Retatrutide (GIP/GLP-1/Glucagon Triple Agonist)	PRODUCT CODE	SYN-RETA
FORM	Lyophilized Powder, 10mg/vial	LOT / BATCH NO.	SYN-RET-2026-0347
MANUFACTURE DATE	January 25, 2026	ANALYSIS DATE	January 29, 2026
EXPIRATION DATE	January 25, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	RP-HPLC, LC-MS/MS, USP <61>, <62>, ICP-MS	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (LC-MS/MS)	Conforms to Retatrutide reference	Confirmed	PASS
Peptide Purity (RP-HPLC)	>= 97.0%	98.3%	PASS
Molecular Weight (MS)	4603.35 +/- 1.0 Da	4603.29 Da	PASS
Peptide Content	>= 80.0%	81.6%	PASS
Total Related Impurities	<= 3.0%	1.5%	PASS
Single Maximum Impurity	<= 1.0%	0.6%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.10	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	<= 1,000 CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	<= 100 CFU/g	< 10 CFU/g	PASS

E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.9 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized cake or powder	White lyophilized cake	PASS
Solubility	Soluble in bacteriostatic water	Conforms	PASS
pH (Reconstituted)	4.0 - 7.0	5.6	PASS
Moisture (Karl Fischer)	<= 8.0%	3.9%	PASS

Dr. Mark Sullivan, Ph.D.

Quality Control Analyst

Date: January 29, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03193

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	MK-677 (Ibutamoren Mesylate)	PRODUCT CODE	SYN-MK677
FORM	Capsules, 25mg/capsule, 60 count	LOT / BATCH NO.	SYN-MK6-2026-0348
MANUFACTURE DATE	January 28, 2026	ANALYSIS DATE	February 1, 2026
EXPIRATION DATE	January 28, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, USP <61>, <62>, ICP-MS	STORAGE CONDITIONS	15-25 C, store in a dry place

Identity & Potency

Parameter	Specification	Result	Status
Compound Identity (HPLC)	Conforms to MK-677 reference	Confirmed	PASS
Assay (HPLC)	23.75 - 26.25 mg/capsule	25.2 mg/capsule	PASS
Purity	$\geq 99.0\%$	99.6%	PASS
Total Related Substances	$\leq 1.0\%$	0.3%	PASS
Capsule Weight Uniformity	$\pm 5\%$ of average weight	Conforms	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.08	PASS
Cadmium (Cd)	≤ 0.5	< 0.03	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS
E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white powder in capsule	White powder in capsule	PASS
Average Capsule Weight	550 +/- 50 mg	548 mg	PASS
Disintegration	<= 30 minutes	18 minutes	PASS
Moisture Content	<= 6.0%	2.9%	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: February 1, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03194

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Ipamorelin	PRODUCT CODE	SYN-IPAM
FORM	Lyophilized Powder, 5mg/vial	LOT / BATCH NO.	SYN-IPA-2026-0349
MANUFACTURE DATE	January 28, 2026	ANALYSIS DATE	February 1, 2026
EXPIRATION DATE	January 28, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to Ipamorelin reference	Confirmed	PASS
Peptide Purity (HPLC)	$\geq 98.0\%$	99.3%	PASS
Molecular Weight (ESI-MS)	711.85 +/- 0.5 Da	711.83 Da	PASS
Peptide Content	$\geq 80.0\%$	85.1%	PASS
Acetate Content	$\leq 15.0\%$	10.4%	PASS
Single Maximum Impurity	$\leq 1.0\%$	0.3%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.10	PASS
Cadmium (Cd)	≤ 0.5	< 0.03	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS
E. coli	Absent	Not Detected	PASS

Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.5 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White lyophilized powder	White lyophilized powder	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	4.0 - 7.0	5.5	PASS
Moisture (Karl Fischer)	<= 8.0%	3.6%	PASS

Dr. Rachel Nguyen, Ph.D.

Quality Control Analyst

Date: February 1, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03195

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	PT-141 (Bremelanotide)	PRODUCT CODE	SYN-PT141
FORM	Lyophilized Powder, 10mg/vial	LOT / BATCH NO.	SYN-PT1-2026-0350
MANUFACTURE DATE	February 1, 2026	ANALYSIS DATE	February 5, 2026
EXPIRATION DATE	February 1, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to Bremelanotide reference	Confirmed	PASS
Peptide Purity (HPLC)	$\geq 98.0\%$	98.8%	PASS
Molecular Weight (ESI-MS)	1025.18 +/- 0.5 Da	1025.15 Da	PASS
Peptide Content	$\geq 80.0\%$	82.9%	PASS
Acetate Content	$\leq 15.0\%$	12.1%	PASS
Related Substances	$\leq 2.0\%$	1.0%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	≤ 0.5	< 0.05	PASS
Arsenic (As)	≤ 1.5	< 0.10	PASS
Cadmium (Cd)	≤ 0.5	< 0.04	PASS
Mercury (Hg)	≤ 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	$\leq 1,000$ CFU/g	< 10 CFU/g	PASS
Total Yeast & Mold	≤ 100 CFU/g	< 10 CFU/g	PASS

E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.8 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized powder	White lyophilized powder	PASS
Solubility	Freely soluble in sterile water	Conforms	PASS
pH (Reconstituted)	4.0 - 7.0	5.3	PASS
Moisture (Karl Fischer)	<= 8.0%	4.0%	PASS

Dr. Mark Sullivan, Ph.D.

Quality Control Analyst

Date: February 5, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03196

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Semaglutide (GLP-1 Receptor Agonist)	PRODUCT CODE	SYN-SEMA
FORM	Lyophilized Powder, 5mg/vial	LOT / BATCH NO.	SYN-SEM-2026-0351
MANUFACTURE DATE	February 3, 2026	ANALYSIS DATE	February 7, 2026
EXPIRATION DATE	February 3, 2028	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	RP-HPLC, LC-MS/MS, SEC-HPLC, USP <61>, <62>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Purity

Parameter	Specification	Result	Status
Peptide Identity (LC-MS/MS)	Conforms to Semaglutide reference	Confirmed	PASS
Peptide Purity (RP-HPLC)	>= 97.0%	98.1%	PASS
Molecular Weight (MS)	4113.58 +/- 1.0 Da	4113.52 Da	PASS
Peptide Content	>= 80.0%	82.4%	PASS
Total Related Impurities	<= 3.0%	1.7%	PASS
Single Maximum Impurity	<= 1.0%	0.5%	PASS
Aggregates (SEC-HPLC)	<= 2.0%	0.4%	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.10	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Microbiological

Parameter	Specification	Result	Status
Total Aerobic Microbial Count	<= 1,000 CFU/g	< 10 CFU/g	PASS

Total Yeast & Mold	<= 100 CFU/g	< 10 CFU/g	PASS
E. coli	Absent	Not Detected	PASS
Salmonella	Absent / 25g	Not Detected	PASS
Bacterial Endotoxins (LAL)	<= 5 EU/mg	< 0.6 EU/mg	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	White to off-white lyophilized powder	White lyophilized powder	PASS
Solubility	Soluble in bacteriostatic water	Conforms	PASS
pH (Reconstituted)	7.0 - 8.5	7.4	PASS
Moisture (Karl Fischer)	<= 8.0%	3.4%	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: February 7, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03197

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Semax (ACTH 4-10 Analogue)	PRODUCT CODE	SYN-SEMAX
FORM	Nasal Spray, 600mcg/spray, 10mL	LOT / BATCH NO.	SYN-SMX-2026-0352
MANUFACTURE DATE	February 5, 2026	ANALYSIS DATE	February 9, 2026
EXPIRATION DATE	August 5, 2027	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <71>, USP <85>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Potency

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to Semax reference	Confirmed	PASS
Peptide Purity	>= 98.0%	99.0%	PASS
Molecular Weight (ESI-MS)	813.93 +/- 0.5 Da	813.91 Da	PASS
Assay per Actuation	570 - 630 mcg	608 mcg	PASS
Spray Content Uniformity	+/- 10% of labeled dose	Conforms	PASS
Deliverable Volume per Actuation	0.10 mL +/- 0.01 mL	0.10 mL	PASS

Sterility & Endotoxin

Parameter	Specification	Result	Status
Sterility (USP <71>)	No growth after 14 days	No growth detected	PASS
Bacterial Endotoxins (LAL)	<= 0.5 EU/mL	< 0.10 EU/mL	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.08	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	Clear, colorless solution	Clear, colorless	PASS
pH	5.0 - 7.0	6.1	PASS
Osmolality	250 - 350 mOsm/kg	298 mOsm/kg	PASS
Fill Volume	10.0 mL +/- 0.5 mL	10.1 mL	PASS

Dr. Rachel Nguyen, Ph.D.

Quality Control Analyst

Date: February 9, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03198

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	Selank (TP-7 Heptapeptide)	PRODUCT CODE	SYN-SELANK
FORM	Nasal Spray, 300mcg/spray, 10mL	LOT / BATCH NO.	SYN-SEL-2026-0353
MANUFACTURE DATE	February 5, 2026	ANALYSIS DATE	February 9, 2026
EXPIRATION DATE	August 5, 2027	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, ESI-MS, USP <71>, USP <85>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Potency

Parameter	Specification	Result	Status
Peptide Identity (HPLC/MS)	Conforms to Selank reference	Confirmed	PASS
Peptide Purity	>= 98.0%	98.6%	PASS
Molecular Weight (ESI-MS)	751.87 +/- 0.5 Da	751.85 Da	PASS
Assay per Actuation	285 - 315 mcg	302 mcg	PASS
Spray Content Uniformity	+/- 10% of labeled dose	Conforms	PASS
Deliverable Volume per Actuation	0.10 mL +/- 0.01 mL	0.10 mL	PASS

Sterility & Endotoxin

Parameter	Specification	Result	Status
Sterility (USP <71>)	No growth after 14 days	No growth detected	PASS
Bacterial Endotoxins (LAL)	<= 0.5 EU/mL	< 0.10 EU/mL	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.10	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS
Mercury (Hg)	<= 0.15	< 0.02	PASS

Physical Characteristics

Parameter	Specification	Result	Status
Appearance	Clear, colorless solution	Clear, colorless	PASS
pH	5.0 - 7.0	5.8	PASS
Osmolality	250 - 350 mOsm/kg	312 mOsm/kg	PASS
Fill Volume	10.0 mL +/- 0.5 mL	10.0 mL	PASS

Dr. Mark Sullivan, Ph.D.

Quality Control Analyst

Date: February 9, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03199

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Certificate of Analysis

● All Specifications Met

PRODUCT NAME	NAD+ (Nicotinamide Adenine Dinucleotide) Nasal Spray	PRODUCT CODE	SYN-NAD-NS
FORM	Nasal Spray, 100mg/mL, 10mL	LOT / BATCH NO.	SYN-NAD-2026-0354
MANUFACTURE DATE	February 8, 2026	ANALYSIS DATE	February 12, 2026
EXPIRATION DATE	August 8, 2027	LABORATORY	Eurofins Scientific, Lancaster, PA
ANALYTICAL METHODS	USP <621> HPLC, USP <71>, USP <85>, USP <788>	STORAGE CONDITIONS	2-8 C, protect from light

Identity & Potency

Parameter	Specification	Result	Status
NAD+ Identity (HPLC)	Conforms to NAD+ reference	Confirmed	PASS
Assay (HPLC)	95.0 - 105.0 mg/mL	101.3 mg/mL	PASS
Purity	>= 98.0%	99.1%	PASS
Total Related Substances	<= 2.0%	0.7%	PASS
Spray Content Uniformity	+/- 10% of labeled dose	Conforms	PASS
Deliverable Volume per Actuation	0.10 mL +/- 0.01 mL	0.10 mL	PASS

Sterility & Endotoxin

Parameter	Specification	Result	Status
Sterility (USP <71>)	No growth after 14 days	No growth detected	PASS
Bacterial Endotoxins (LAL)	<= 0.5 EU/mL	< 0.10 EU/mL	PASS
Particulate Matter (USP <788>)	Conforms	Conforms	PASS

Heavy Metals (ICP-MS)

Element	Limit (ppm)	Result (ppm)	Status
Lead (Pb)	<= 0.5	< 0.05	PASS
Arsenic (As)	<= 1.5	< 0.08	PASS
Cadmium (Cd)	<= 0.5	< 0.03	PASS

Mercury (Hg)	<= 0.15	< 0.02	PASS
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Physical Characteristics

Parameter	Specification	Result	Status
Appearance	Clear, colorless to pale yellow solution	Clear, colorless	PASS
pH	6.0 - 8.0	7.2	PASS
Osmolality	250 - 400 mOsm/kg	338 mOsm/kg	PASS
Fill Volume	10.0 mL +/- 0.5 mL	10.1 mL	PASS

Dr. Sarah Mitchell, Ph.D.

Quality Control Analyst

Date: February 12, 2026

James Chen

Quality Assurance Director

Report: EF-2026-03200

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